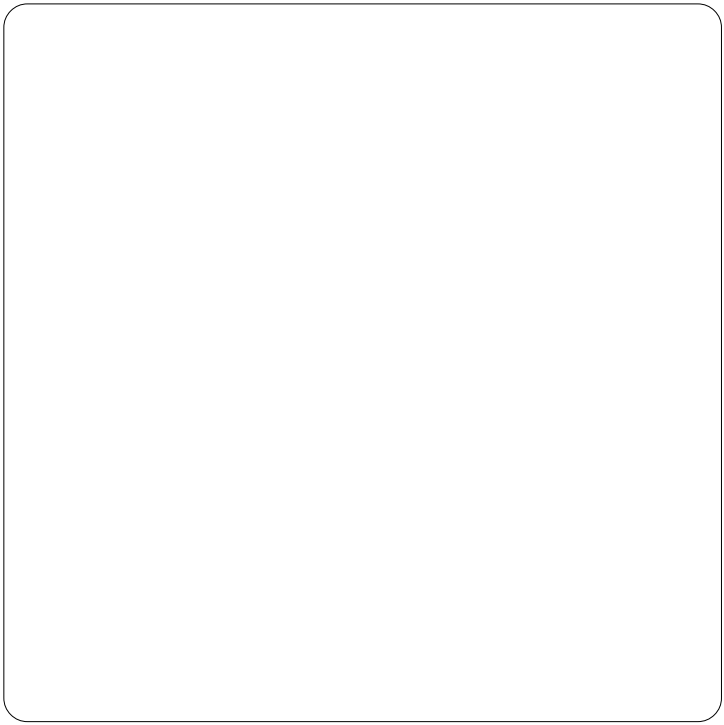
ZANUSSI

Instruction booklet

Gas hob



ZGF 640 IT

GB IE

Thank you for selecting our appliance

We wish you lots of enjoyment with your new appliance and we hope that you will consider our brand again when purchasing household appliances. Please read this user manual carefully and keep it throughout the product life cycle as a reference document. The user manual should be passed on to any future owner of the appliance.

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Guide to Use the instructions

The following symbols will be found in the text to guide you throughout the Instructions:

Safety Instructions

Step by step instructions for an operation

Hints and Tips

Environmental information

CE This appliance is manufactured according to the following EEC directives: 2006/95 EEC - 2004/108 EEC - 90/396 EEC, current edition.

MANUFACTURER :
ELECTROLUX ITALIA S.p.A.
C.so Lino Zanussi, 30
33080 Porcia (PN) - ITALY

Important Safety Information

You MUST read these warnings carefully before installing or using the hob. If you need assistance, contact our Customer Care Department on 08705 727 727.

Installation

- This appliance must be installed and serviced by a competent person as stated in the Gas Safety (Installation and Use) Regulations Current Editions and the IEE Wiring Regulations.
- For appliances installed in the Republic of Ireland please refer to NSAI-Domestic Gas Installations I.S.813 Current Editions and the ETCI Rules for Electrical Installations.
- Remove all packaging before using the hob.
- Ensure that the gas and electrical supply complies with the type stated on the rating plate, located near the gas supply pipe.
- Do not attempt to modify the hob in any way.

People Safety

- This hob is designed to be operated by adults. Do not allow children to play near or with the hob.
- This appliance is not intended for use by children or other persons whose physical, sensory or mental capabilities or lack of experience and knowledge prevents them from using the appliance safely without supervision or instruction by a responsible person to ensure that they can use the appliance safely.
- The hob gets hot when it is in use. Children should be kept away until it has cooled.
- Children can also injure themselves by pulling pans or pots off the hob.

During Use

- This hob is intended for domestic cooking only. It is not designed for commercial or industrial purposes.
- This appliance is not connected to a combustion products evacuation device. It must be installed and connected in accordance with current installation regulations. Particular attention shall be given to the relevant requirements regarding ventilation.
- When in use a gas cooking hob will produce heat and moisture in the room in which it has been installed. Ensure there is a continuous air supply, keeping air vents in good condition or installing a cooker hood with a venting hose.

- Ensure a good ventilation around the appliance. A poor air supply could cause lack of oxygen.
- When using the hob for a long period time, the ventilation should be improved, by opening a window or increasing the extractor speed.
- Do not use this hob if it is in contact with water. Do not operate the hob with wet hands.
- Ensure the control knobs are in the 'OFF' position when not in use.
- When using other electrical appliances, ensure the cable does not come into contact with the hot surfaces of the cooking appliance.
- Unstable or misshapen pans should not be used on the hob as unstable pans can cause an accident by tipping or spillage.
- Never leave the hob unattended when cooking with oil and fats.
- Never use plastic or aluminium foil dishes on the hob.
- Perishable food, plastic items and areosols may be affected by heat and should not be stored above or below the hob unit.
- This appliance cannot be cleaned with steam or with a steam cleaning machine.

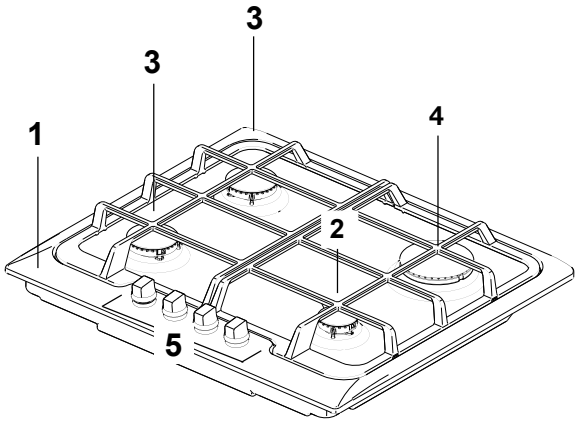
Service

- This hob should only be repaired or serviced by an authorised Service Engineer and only genuine approved spare parts should be used.

Environmental Information

- After installation, please dispose of the packaging with due regard to safety and the environment.
- When disposing of an old appliance, make it unusable, by cutting off the cable.
- The symbol on the product or on its packaging indicates that this product may not be treated as household waste. Instead it shall be handed over to the applicable collection point for the recycling of electrical and electronic equipment. By ensuring this product is disposed of correctly, you will help prevent potential negative consequences for the environment and human health, which could otherwise be caused by inappropriate waste handling of this product. For more detailed information about recycling of this product, please contact your local city office, your household waste disposal service or the shop where you purchased the product.

Description of the Hob



1. Hob Top
2. Auxiliary Burner
3. Semi-rapid Burner
4. Rapid Burner
5. Control knobs

Instructions for the User

INSTALLATION

Any gas installation must be carried out by a registered competent person, and in accordance with existing rules and regulations.

The relevant instructions are to be found in the second section of this manual.

Please, ensure that, once the hob is installed, it is easily accessible for the engineer in the event of a breakdown.

WHEN THE HOB IS FIRST INSTALLED

Once the hob has been installed, it is important to remove any protective materials, which were put on in the factory.
The manufacturer will not accept liability, should the above instructions or any of the other safety instructions incorporated in this book be ignored.

Keep this instruction book for future reference and ensure it is passed on to any new owner.

These instructions are only valid for countries whose identification symbols are shown on the cover of this instruction booklet and on the appliance itself.

Operation

Hob burners control knobs

The symbols on the knobs mean that :

- ● there is no gas supply (“off” position)
- there is maximum gas supply
- there is minimum gas supply

Lighting the burners

For easier lighting, proceed before putting a pan on the pan support.

To light a burner:

- turn the relevant knob anti-clockwise to maximum position ( ), then push it down to ignite the burner.
- Upon ignition, keep the knob pushed down about **5 seconds**. This will allow the "thermocouple" (see Fig.1 - letter **D**) to be heated and the safety device to be switched off, otherwise the gas supply would be interrupted.
- Then adjust the flame as required.

If the burner accidentally goes out, turn the control knob to the "off" position and wait for at least **1 minute** before trying to light the burner again.

If you cannot light the flame even after several attempts, check the "cap" (see Fig.1 - letter **A**) and the"crown" (see Fig.1 - letter **B**) are in the correct position.

To switch off a burner:

- To put the flame out, turn the knob to the symbol (●).

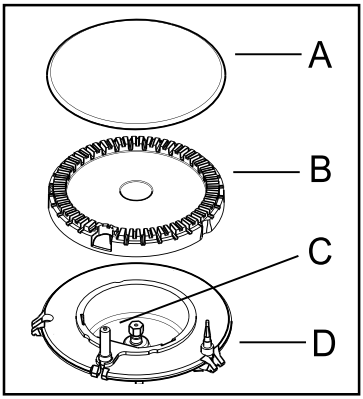


Fig. 1

A - Burner cap
B - Burner crown
C - Ignition electrode
D - Thermocouple

⚠ **Do not keep the control knob pressed for more than 15 seconds.**
If the burner does not light even after 15 seconds, release the control knob, turn it the "off" position and wait for at least 1 minute before trying to light the burner again.

ⓘ When switching on the mains, after installation or a power cut, it is quite normal for the spark generator to be activated automatically.

ⓘ **In the absence of electricity**, ignition can occur without the electrical device; in this case, approach the burner with a flame, push the relevant knob down and turn it anti-clockwise until it reaches the maximum position.

ⓘ If the control knobs become difficult to turn, please contact your local Service Force Centre.

Using the hob correctly

To ensure maximum burner efficiency, it is strongly recommended that you use only pots and pans with a **flat** bottom fitting the size of the burner used, so that flame will not spread beyond the bottom of the vessel (see the table below).

Burner	minimum diameter	maximum diameter
Large (rapid)	160 mm	260 mm
Medium (semi-rapid)		
rear	120 mm	220 mm
front	120 mm	180 mm
Small (auxiliary)	80 mm	160 mm

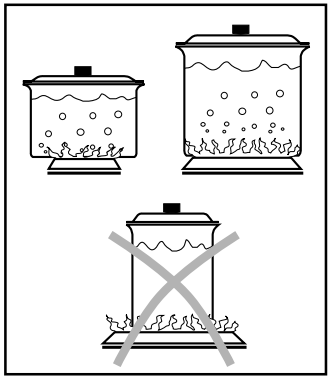
ⓘ As soon as a liquid starts boiling, turn down the flame so that it will barely keep the liquid simmering.

⚠ **Use only pans or pots with flat bottom.**

⚠ **If you use a saucepan which is smaller than the recommended size, the flame will spread beyond the bottom of the vessel, causing the handle to overheat.**

Carefully supervise cooking with **fat or oil**, since these types of foodstuff can result in a fire, if over-heated.

The stainless steel can become tarnished if excessively heated. Therefore prolonged cooking with potstones, earthenware pans or cast-iron plates is inadvisable. Also, do not use aluminium foil to protect the top during use.



Make sure pots do not protrude over the edges of the cooktop and that they are centrally positioned on the rings in order to obtain lower gas consumption.

Do not place unstable or deformed pots on the rings: they could tip over or spill their contents, causing accidents.

Pots must not enter the control zone.

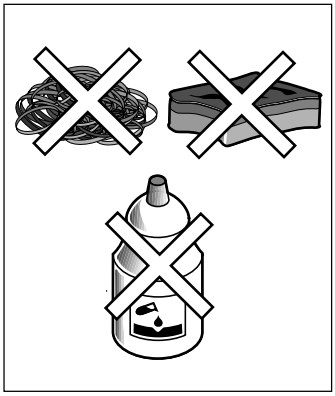
Maintenance and Cleaning

⚠ **Before any maintenance or cleaning can be carried out, you must DISCONNECT the hob from the electricity supply.**

⚠ **The hob is best cleaned whilst it is still warm, as spillage can be removed more easily than if it is left to cool.**

⚠ **This appliance cannot be cleaned with steam or with a steam cleaning machine.**

The Hob Top



Regularly wipe over the hob top using a soft cloth well wrung out in warm water to which a little wasing up liquid has been added. Avoid the use of the following:

- household detergent and bleaches;
- impregnated pads unsuitable for non-stick saucepans;
- steel wool pads;
- bath/sink stain removers.

Should the hob top become heavily soiled, the following products are recommended:

- For stainless steel hobs use a proprietary stainless steel cleaner.
- For other hobs use Hob Brite or Bar Keepers Friend.

⚠ **Do not leave acid or alkaline substances (e.g. vinegar, salt, lemon juice, etc.) on the cooktop.**

The Burners

The burner caps and crowns can be removed for cleaning.

Wash the burners caps and crowns using hot soapy water, and remove marks with a mild paste cleaner. A well moistened soap impregnated steel wool pad can be used with caution, if the marks are particularly difficult to remove.

After cleaning, be sure to wipe dry with a soft cloth.

Pan Supports

Wash the pan supports using hot soapy water. If necessary, a paste cleaner or a soap impregnated steelwool pad can be used with caution.

⚠ The pan supports **are not dishwasher proof**; they must be washed **by hand**. After cleaning, be sure to wipe dry with a soft cloth. Take care when drying them as the enamelling process occasionally leaves rough edges. If necessary, remove stubborn stains using a paste cleaner.

After cleaning, make sure that the pan supports are correctly positioned.

⚠ **Pay attention when replacing the pan supports in order to avoid damaging the hob top.**

The Ignition electrode

The electric ignition is obtained through a ceramic electrode which contains a metal electrode (Fig. 1 letter C - page 8). Keep these components very clean, to avoid difficult lighting, and check that the burner crown holes (Fig. 1 letter B - page 8) are not obstructed.

Something Not Working?

If the hob is not working correctly, please carry out the following checks before contacting your local Service Force Centre.

SYMPTOM	SOLUTION
▪ There is no spark when lighting the gas.	◆ Check that the unit is plugged in and the electrical supply is switched on. ◆ Check that the RCCB has not tripped (if fitted). ◆ Check the mains fuse has not blown. ◆ Check the burner cap and crown have been replaced correctly, e.g. after cleaning.
▪ The gas ring burns unevenly.	◆ Check the main jet is not blocked and the burner crown is clear of food particles. ◆ Check the burner cap and crown have been replaced correctly, e.g. after cleaning.

If after all these checks, your hob still does not operate correctly, contact your local Service Force Centre.

Please note that it will be necessary to provide proof of purchase for any in-guarantee service calls.

In-guarantee customers should ensure that the above checks have been made as the engineer will make a charge if the fault is not a mechanical or electrical breakdown.

Instructions for the Installer

Engineer technical data

OVERALL DIMENSIONS	Width:	594 mm
	Depth:	510 mm
CUT OUT DIMENSIONS	Width:	560 mm
	Depth:	480 mm

SUPPLY CONNECTIONS
Gas:
R 1/2 inch (1/2 inch male) Rear right hand corner
Electric:
230 V~ 50 Hz supply, 3 core flexible cable with non rewireable plug fitted with a 3 amp cartridge fuse

HEAT INPUT

Front Left Burner (semi-rapid)	2.0 kW (6826 BTU/HR)
Rear Left Burner (semi-rapid)	2.0 kW (6826 BTU/HR)
Rear Right Burner (rapid)	3.0 kW (10239 BTU/HR)
Front Right Burner (auxiliary)	1.0 kW (3413 BTU/HR)

APPLIANCE CLASS	3
APPLIANCE CATEGORY	II2H3+
GAS SUPPLY	Natural gas G20 (2H) 20 mbar

Gas burners

TYPE OF GAS	BURNER	RAPID		SEMI-RAPID		AUXILIARY	
	POSITION	MAX	MIN	MAX	MIN	MAX	MIN
NATURAL GAS 20 mbar VALUE = 37.78 MJ/m^3 Ws - 50.7 MJ/ m^3	NOMINAL THERMAL POWER kW	3.0	0.75	2.0	0.45	1.0	0.33
	NOMINAL FLOW RATE m^3/h	0.286	0.057	0.190	0.038	0.095	0.028
	NOZZLE REFERENCE 1/100mm	119	Adjust.	96	Adjust.	70	Adjust.
LPG GAS 28-30/37 mbar VALUE = 49.92 MJ/Kg	NOMINAL THERMAL POWER kW	2.8	0.75	2.0	0.45	1.0	0.33
	NOMINAL FLOW RATE g/h	202	43.5	144	29	72	21,5
	NOZZLE REFERENCE 1/100mm	86	42	71	32	50	28

Important safety requirements

This hob must be installed in accordance with the Gas Safety (Installation and Use) Regulations (Current Edition) and the IEE Wiring Regulations (Current Edition).

For appliances installed in the Republic of Ireland please refer to NSAI- Domestic Gas Installation I.S. 813 Current Editions and the ETCI Rules for Electrical Installations.

Provision for Ventilation
Detailed recommendations are contained in the following British Standards Codes Of Practice: B.S. 6172/ B.S. 5440, Par. 2 and B.S. 6891 Current Editions.

The hob should not be installed in a bed sitting room with a volume of less than 20 m^3. If it is installed in a room of volume less than 5 m^3 an air vent of effective area of 100 cm^2 is required. If it is installed in a room of volume between 5 m^3 and 10 m^3 an air vent of effective area of 50 cm^2 is required, while if the volume exceeds 11 m^3 no air vent is required.

However, if the room has a door which opens directly to the outside no air vent is required even if the volume is between 5 m^3 and 11 m^3.

If there are other fuel burning appliances in the same room, B.S. 5440 Part 2 Current Edition, should be consulted to determine the requisite air vent requirements.

For appliances installed in the Republic of Ireland please refer to the NSAI- Domestic Gas Installation I.S. 813 Current Editions Table Four.

Location

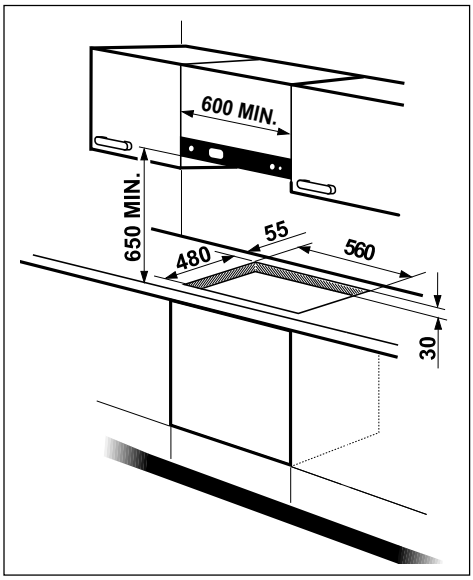
The hob may be located in a kitchen, a kitchen/diner or bed sitting room, but not in a bathroom or shower room.

Ensure that there is a minimum distance of 55 mm between the rear cut out edge and the wall.

A minimum distance of **450 mm** must be left between the side edges of the cut out and any adjacent cabinets or walls.

The minimum distance combustible material can be fitted above the hob in line with the edges of the hob is 400 mm If it is fitted below 400 mm a space of 50 mm must be allowed from the edges of the hob.

The minimum distance combustible material or a cooker hood can be fitted above the hob is 650 mm.



For appliances installed in the Republic of Ireland please refer to NSAI- Domestic Gas Installation I.S 813 Current Edition Section 7- Permitted Locations of Appliance.

Installation

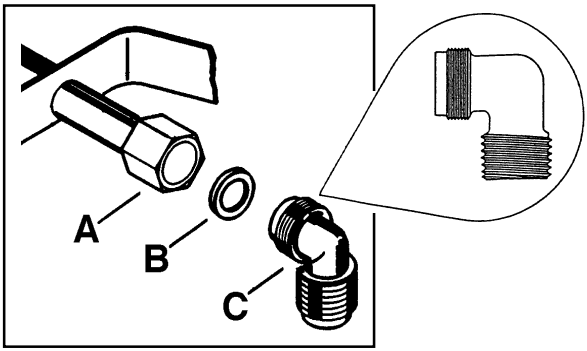
IMPORTANT

Any gas installation must be carried out by a GAS SAFE REGISTER installer.

Please, ensure that, once the hob is installed, it is easily accessible for the engineer in the event of a breakdown.

The manufacturer will not accept liability, should the above instructions or any of the other safety instructions incorporated in this instruction booklet be ignored.

On the end of the shaft, which includes the G 1/2" threaded elbow, adjustment is fixed so that the washer is fitted between the components as shown in the diagram. Screw the parts together without using excessive force.



A) End of shaft with nut
B) Washer
C) Elbow

Gas Connection

Connection to the gas supply should be with either rigid or semi-rigid pipe, i.e. steel or copper.

The connection should be suitable for connecting to R 1/2 (1/2 BSP male thread).

When the final connection has been made, it is essential that a thorough leak test is carried out on the hob and installation.

Ensure that the main connection pipe does not exert any strain on the hob.

It is important to install the elbow correctly, with the shoulder on the end of the thread, fitted to the hob connecting pipe.

Failure to ensure the correct assembly will cause leakage of gas.

Check to be sure that all connections to the unit are completely gas-tight; use a soap solution to do this, **never a flame**.

Building In

Building over a cupboard or drawer

If the hob is to be installed above a cupboard or drawer it will be necessary to fit a heat resistant board below the base of the hob on the underside of the work surface.

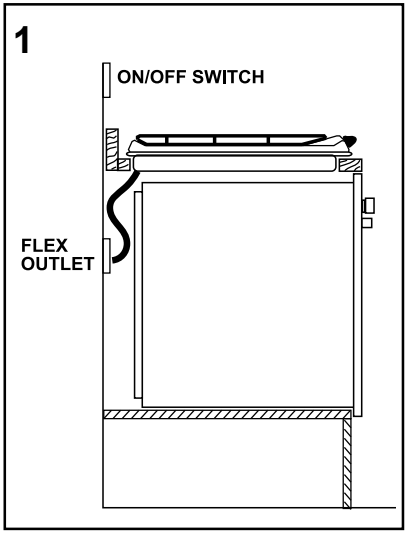
It is also recommended to carry out the electrical connection to the hob as shown in diagrams 1 and 2.

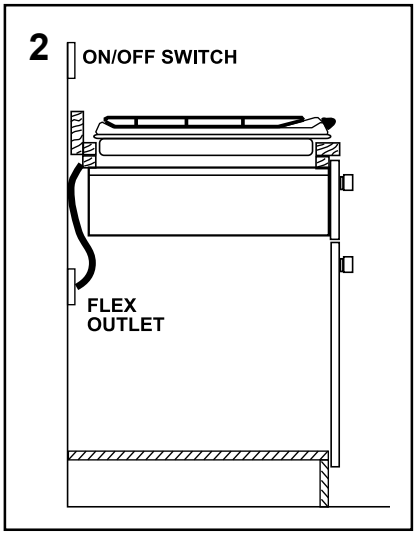
Building over a kitchen unit with door

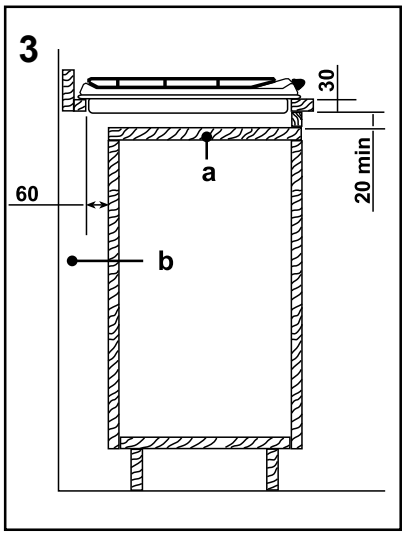
Proper arrangements must be taken in designing the furniture unit, in order to avoid any contact with the bottom of the hob which can be heated when it is operated. The recommended solution is shown in diagram 3.

The panel fitted under the hob ("a") should be easily removable to allow easy access if technical assistance is needed. The space behind the kitchen unit ("b") can be used for connections.

Dimensions are given in mm.





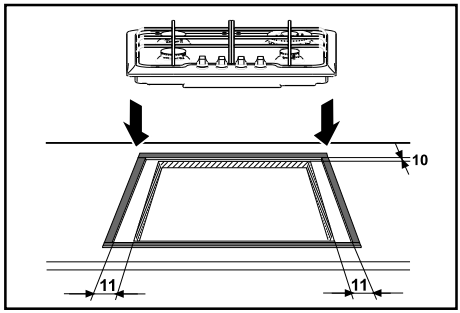


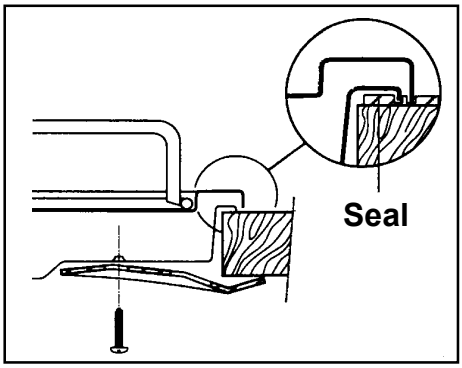
Fitting the Hob into the Worktop

Carry out the building in of the hob as follows:

- place the seals supplied with the hob on the front edge of the cut out. Then, place them at 11 mm from the side edges and at 10 mm from the rear edge, as shown in the diagram, taking care that the seals meet without overlapping.
- place the hob in the cut out, taking care that it is centred;
- fix the hob with the relevant fixing clamps, supplied with the accessories bag, as shown in the diagram. When the screws have been tightened, the excess seal can be removed.

The edge of the hob forms a double seal which prevents the ingress of liquids.





Electrical Connections

Any electrical work required to install this hob should be carried out by a qualified electrician or competent person, in accordance with the current regulations.

THIS HOB MUST BE EARTHED.

Electrical Requirements

Any permanent electrical installation must comply with the latest I.E.E. Regulations and local Electricity Board regulations. For your own safety this should be undertaken by a qualified electrician, e.g. your local Electricity Board, or a contractor who is on the roll of the National Inspection Council for Electrical Installation Contracting (NICEIC).

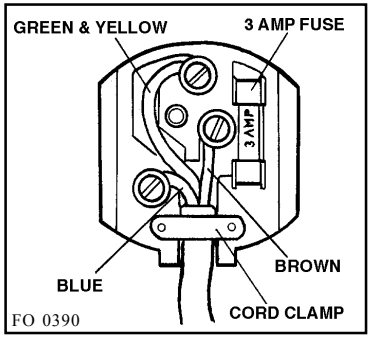
The manufacturer declines any liability should these safety measures not be observed.

This hob is designed to be connected to a 230 V~50 Hz AC electrical supply.

Before switching on, make sure the electricity supply voltage is the same as that indicated on the hob rating plate. The rating plate is located on the bottom of the hob. A copy is attached on the back cover of this book.

The hob is supplied with a 3 core flexible supply cord incorporating a 3 amp plug fitted. In the event of having to change the fuse, a 3 amp ASTA approved (BS 1362) fuse must be used.

Should the plug need to be replaced for any reason, the wires in the mains lead are coloured in accordance with the following code:



Green and Yellow	- Earth
Blue	- Neutral
Brown	- Live

1) Connect the green and yellow (earth) wire to the terminal in the plug which is marked with the letter 'E' or the earth symbol ⏚ or coloured green and yellow.

2) Connect the blue (neutral) wire to the terminal in the plug which is marked with the letter 'N' or coloured black.

3) Connect the brown (live) wire to the terminal in the plug which is marked with the letter 'L' or coloured red.

Upon completion there must be no cut, or stray strands of wire present and the cord clamp must be secure over the outer sheath.

A cut off plug inserted into a 13 amp socket is a serious safety (shock) hazard. Ensure that the cut off plug is disposed of safely.

The replacement of electric cable must be carried out exclusively by the service force centre or by personnel with similar competencies, in accordance with the current regulations.

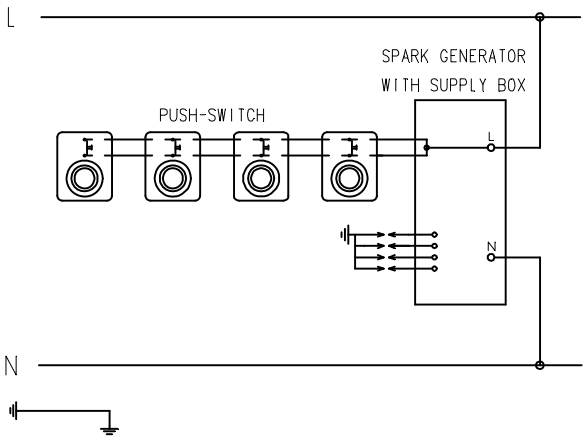
Permanent Connection

In the case of a permanent connection, it is necessary that you install a double pole switch between the hob and the electricity supply (mains), with a minimum gap of 3 mm between the switch contacts and of a type suitable for the required load in compliance with the current electric regulations.

The switch must not break the yellow and green earth cable at any point.

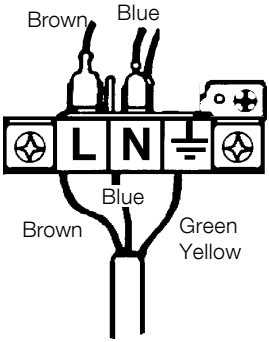
Ensure that the hob supply cord does not come into contact with surfaces with temperatures higher than 50 deg. C.

Wiring diagram



Fault Finding

Preliminary Electrical Systems Check



START
Isolate appliance and carry out:
A: Earth Continuity check.

NO YES

Carry out:
C: Polarity check.

Carry out:
D: Resistance to Earth check.

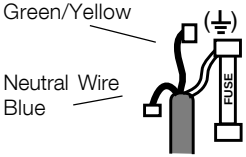
Has inlet fuse blown?

NO YES

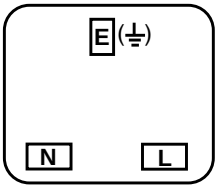
Electricity supply should now be satisfactory.

Inlet wiring faulty.
Rectify any fault.

PLUG (with cover removed)



SOCKET (face view)



Isolate appliance and carry out:
B: Insulation check.
Rectify any fault including replacing fuses as necessary.

A. EARTH CONTINUITY CHECK

Appliance must be electrically disconnected - meter set on W (Ohms) x 1 scale and adjust zero if necessary.

— Test leads from any appliance earth point to earth pin on plug. Resistance should be less than 0.1 W (Ohm), check all earth wires for continuity and all contacts clean and tight.

B. INSULATION CHECK

Appliance electrically disconnected, all switches ON.

a) meter set on W (Ohms) x 1 scale.

Test leads from L to N in appliance terminal block. If meter reads «0» then there is a short circuit.

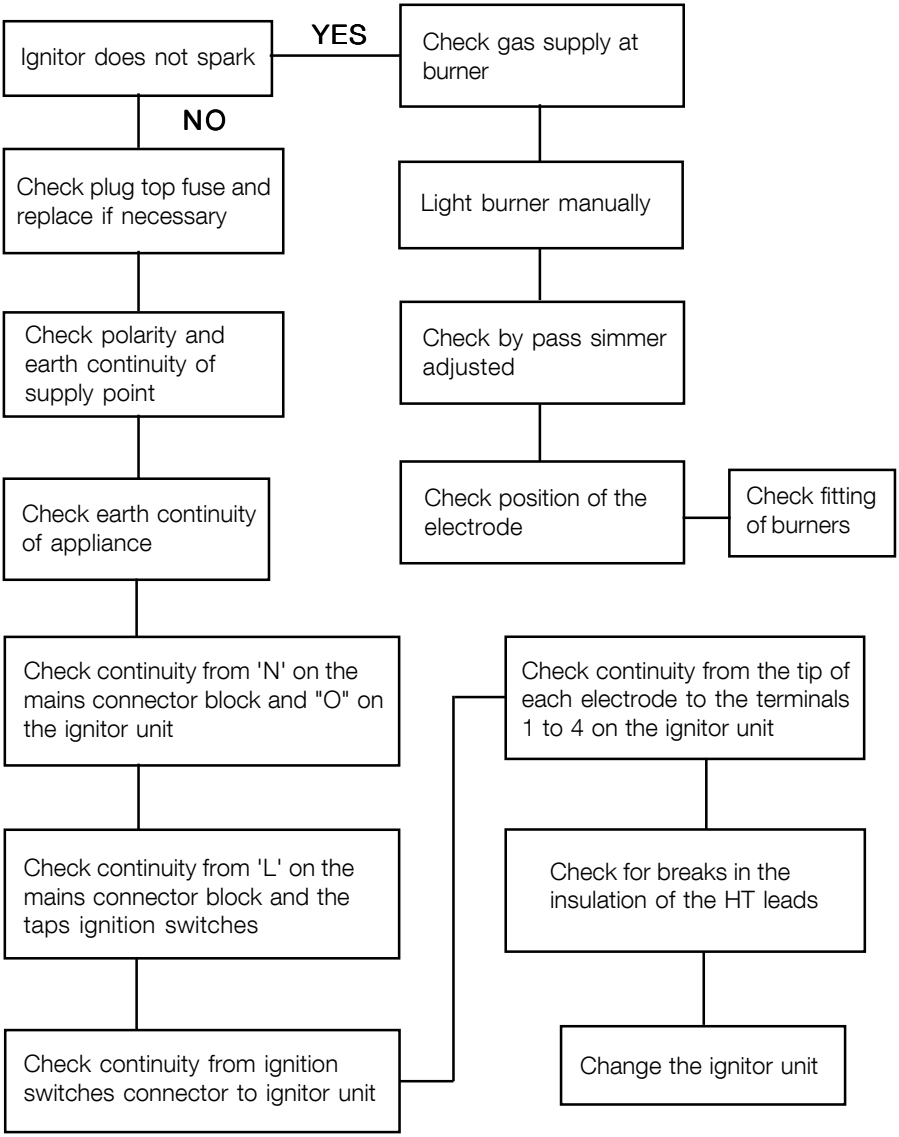
b) meter set on W (Ohm) x 100 scale.

Repeat test with leads from L to E. If meter reads less than × (infinity) there is a fault.

NOTE - Should it be found that the fuse has failed but no fault is indicated - a detailed continuity check (i.e. by disconnecting and checking each component) is required to trace the faulty component.

It is possible that a fault could occur as a result of local burning/arcing but no fault could be found under test. However a detailed visual inspection should reveal evidence of burning around the fault.

Ignition System / Gas Ignition


Ignitor does not spark
YES
Check gas supply at burner
NO
Check plug top fuse and replace if necessary
Light burner manually
Check polarity and earth continuity of supply point
Check by pass simmer adjusted
Check earth continuity of appliance
Check position of the electrode
Check fitting of burners
Check continuity from 'N' on the mains connector block and "O" on the ignitor unit
Check continuity from the tip of each electrode to the terminals 1 to 4 on the ignitor unit
Check continuity from 'L' on the mains connector block and the taps ignition switches
Check for breaks in the insulation of the HT leads
Check continuity from ignition switches connector to ignitor unit
Change the ignitor unit

Commissioning

When the hob has been fully installed it will be necessary to check the minimum flame setting. To do this, follow the procedure below.

☞ 1) Turn the gas tap to the MAX position and ignite.

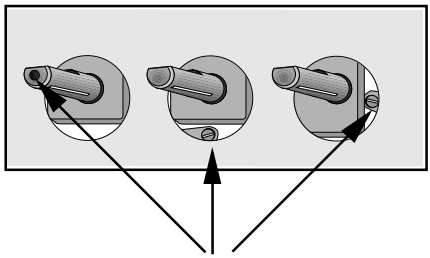
2) Set the gas tap to the MIN flame position then turn the control knob from MIN to MAX several times. If the flame is unstable or is extinguished follow the procedure below.

Procedure:

☞ 1) Re-ignite the burner and set to MIN.

2) Remove the control knob.

3) To adjust, use a thin bladed screwdriver and turn the adjustment screw (see diagram) until the flame is steady and does not extinguish, when the knob is turned from MIN to MAX. Repeat this procedure for all burners.



Minimum adjustment screw

Pressure Testing

The pressure testing must be carried out on the burners.

☞ Proceed as follows:

1) Remove the pan supports and the burner caps and crowns.

2) Fit manometer tube over the injector.

3) Turn on the burner gas supply and ignite another burner supply.

The pressure reading should be nominally 20 mbar and must be between 17 mbar and 25 mbar.

4) Turn off the burner supplies.

Conversion from Natural Gas to LPG

IMPORTANT

The replacement/conversion from natural gas to LPG should only be undertaken by a competent person.

It is important to note that this model is designed for use with natural gas but can be converted for use with butane or propane gas providing the correct injectors are fitted. The gas rate is adjusted to suit.

Method

1) Ensure that the gas taps are in the 'OFF' position
2) Isolate the hob from the electricity supply
3) Remove all pan supports, burner caps, rings and crowns.
4) With the aid of a 7mm box spanner the burner injectors can then be unscrewed and replaced by the appropriate LPG injectors.

TO ADJUST THE GAS RATE

With the aid of a thin bladed screwdriver completely tighten down the by pass adjustment screw. Upon completion stick the replacement rating plate on the under side of the hob.

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